

APPENDIX L

Section 11

Construction Procedures and Well Schematics:

All tubing and casing as shown in the attached wellbore diagrams for existing and proposed wells meet the following API requirements upon initial installation.

API Tubing Requirements

DRIFT TEST

| TUBING SIZE | DRIFT MANDREL LENGTH | DRIFT MANDREL DIAMETER |
|-------------------|----------------------|------------------------|
| 2-7/8 AND SMALLER | 42" | I.D. MINUS 3/32" |
| 3-1/2 AND larger | 42" | I.D. MINUS 1/8" |

TENSILE REQUIREMENTS

| GRADE | YIELD STRENGTH | | TENSILE STRENGTH |
|-------|----------------|----------|------------------|
| | MIN. PSI | MAX. PSI | MINIMUM PSI |
| H-40 | 40,000 | 80,000 | 60,000 |
| J-55 | 55,000 | 80,000 | 75,000 |
| k-55 | 55,000 | 80,000 | 95,000 |
| L-80 | 80,000 | 95,000 | 95,000 |
| N-80 | 80,000 | 110,000 | 100,000 |
| C-90 | 90,000 | 105,000 | 100,000 |
| C-95 | 95,000 | 110,000 | 105,000 |
| T-95 | 95,000 | 110,000 | 105,000 |
| P-110 | 110,000 | 140,000 | 125,000 |
| Q-125 | 125,000 | 150,000 | 135,000 |

RANGE LENGTHS

| | RANGE 1 (ft.) | RANGE 2 (ft.) | RANGE 3 (ft.) |
|---|------------------|------------------|------------------|
| TOTAL RANGE LENGTH, INCLUSIVE | 20-24 | 28-32 | — |
| RANGE LENGTH FOR 100% OF CAR LOAD: PERMISSIBLE LENGTH, MINIMUM | 20 | 28 | — |
| PERMISSIBLE VARIATION, MAXIMUM | 2 | 2 | — |

TOLERANCES

| TUBING SIZE O.D. (in.) | TYPE | DIMENSION | TOLERANCE (in.) |
|----------------------------------|------|----------------|--|
| 1.050 - 3.500 4 4.50 | EUE | O.D. | + 3/32, - 1/32 + 7/64, - 0.75% O.D. + 7/64, - 0.75% O.D. |
| 4 AND SMALLER 4.50 AND LARGER | NUE | O.D. | + 0.031, - 0.031 + 1.00%, - 0.50% |
| | — | WALL THICKNESS | - 12.5% |
| ALL SIZES | — | i.d. | Governed by O.D. and Weight Tolerances |

* UPPER LIMIT OF O.D. SHALL NOT EXCEED 0.125 INCHES.

DATA REPRINTED FROM TABLE 4.1 & 6.7, PP 21 & 65, 3RD ED., API SPEC 5CT, DEC. 1, 1990.

API Casing Requirements

DRIFT TEST*

| CASING SIZE | DRIFT MANDREL LENGTH | DRIFT MANDREL DIAMETER |
|--------------------|----------------------|------------------------|
| 8-5/8" AND SMALLER | 6" | I.D. MINUS 1/8" |
| 9-5/8" TO 13-3/8" | 12" | I.D. MINUS 5/32" |
| 16" AND LARGER | 12" | I.D. MINUS 3/16" |

TENSILE REQUIREMENTS

| GRADE | YIELD STRENGTH | | TENSILE STRENGTH |
|-------|----------------|----------|------------------|
| | MIN. PSI | MAX. PSI | MINIMUM PSI |
| H-40 | 40,000 | 80,000 | 60,000 |
| J-55 | 55,000 | 80,000 | 75,000 |
| K-55 | 55,000 | 80,000 | 95,000 |
| C-90 | 90,000 | 105,000 | 100,000 |
| L-80 | 80,000 | 95,000 | 95,000 |
| N-80 | 80,000 | 110,000 | 100,000 |
| T-95 | 95,000 | 110,000 | 105,000 |
| P-110 | 110,000 | 140,000 | 125,000 |
| Q-125 | 125,000 | 150,000 | 135,000 |

RANGE LENGTHS*

| | RANGE 1 (ft.) | RANGE 2 (ft.) | RANGE 3 (ft.) |
|--|------------------|------------------|------------------|
| TOTAL RANGE LENGTH, INCLUSIVE | 16-25 | 25-34 | 34-48 |
| RANGE LENGTH FOR 95% or more OF CAR LOAD: PERMISSIBLE LENGTH, MINIMUM | 18 | 28 | 36 |
| PERMISSIBLE VARIATION, MAXIMUM | 6 | 5 | 6 |

TOLERANCES

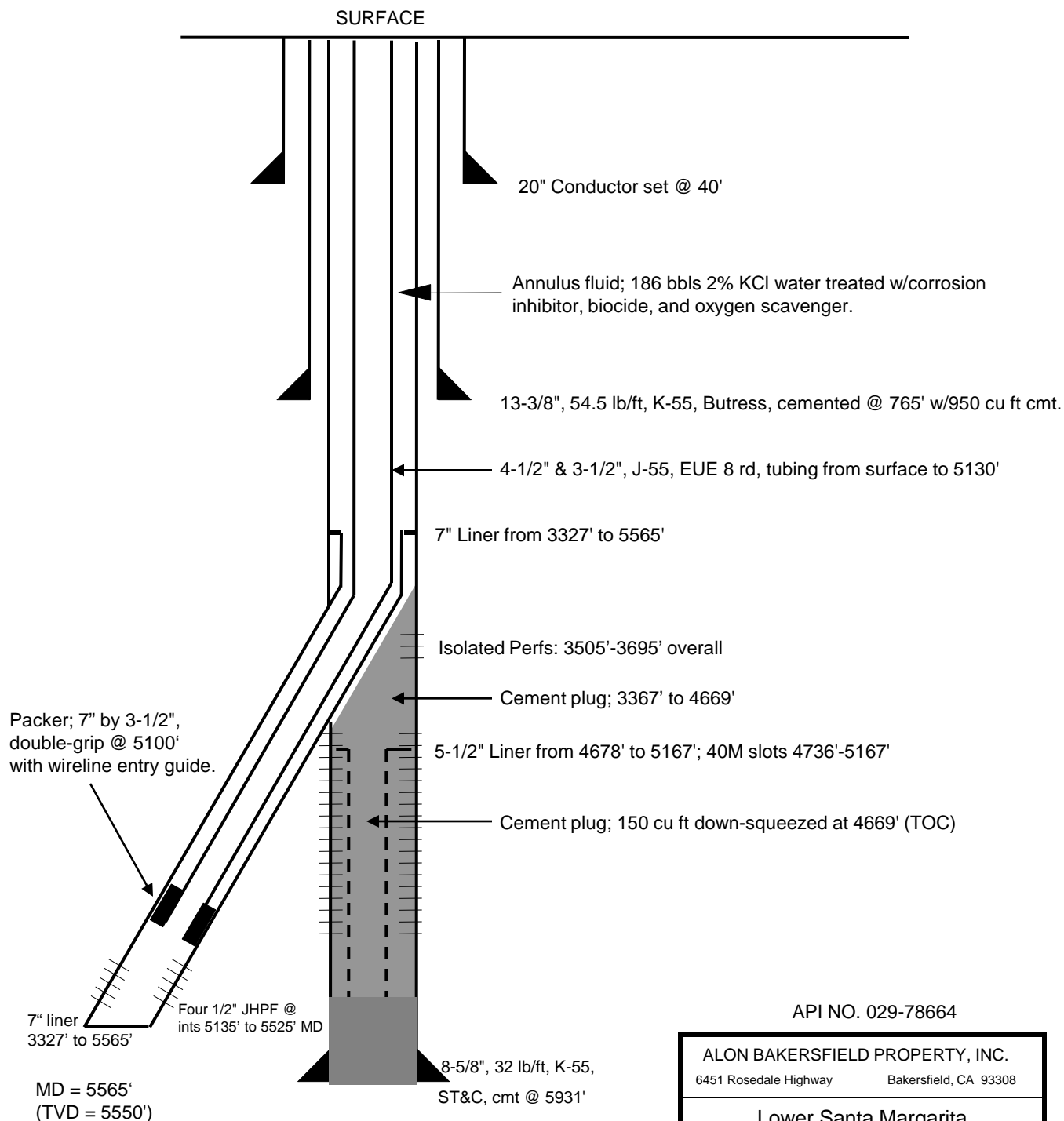
| CASING SIZE O.D. (in.) | TYPE | DIMENSION | TOLERANCE (in.) |
|--|-----------|------------------------|--|
| 4.000 - 5.000 5.500 - 8.625 9.625 & LARGER | UPSET | O.D. (D) ¹ | + 7/64, - .75% O.D. + 1/8, - .75% O.D. + 5/32, - .75% O.D. |
| 4.5 AND LARGER | NON UPSET | O.D. (D) ¹ | + 1.00%; - .50% |
| ALL SIZES | — | WALL THICKNESS I.D. | - 12.5% Governed by O.D. Tolerances |

* Values listed also apply to liners.

¹ Measurements made immediately behind the upset for a distance of approximately 5 inches for sizes 5.5 inches O.D. and smaller, and a distance approximately equal to the O.D. for sizes larger than 5.5 inches.

² Upper limit tolerance of O.D. shall not exceed 0.125 inches.

Data obtained from Tables 4.1, 5.1, 6.7, 6.8, PP.21, 51 & 65, 3RD ED., API SPEC 5CT.



NOTE: Not drawn to scale.

API NO. 029-78664

ALON BAKERSFIELD PROPERTY, INC.
6451 Rosedale Highway Bakersfield, CA 93308

Lower Santa Margarita

"RED RIBBON" WD-1

S27, T29S, R27E

Drilled 9/7/86

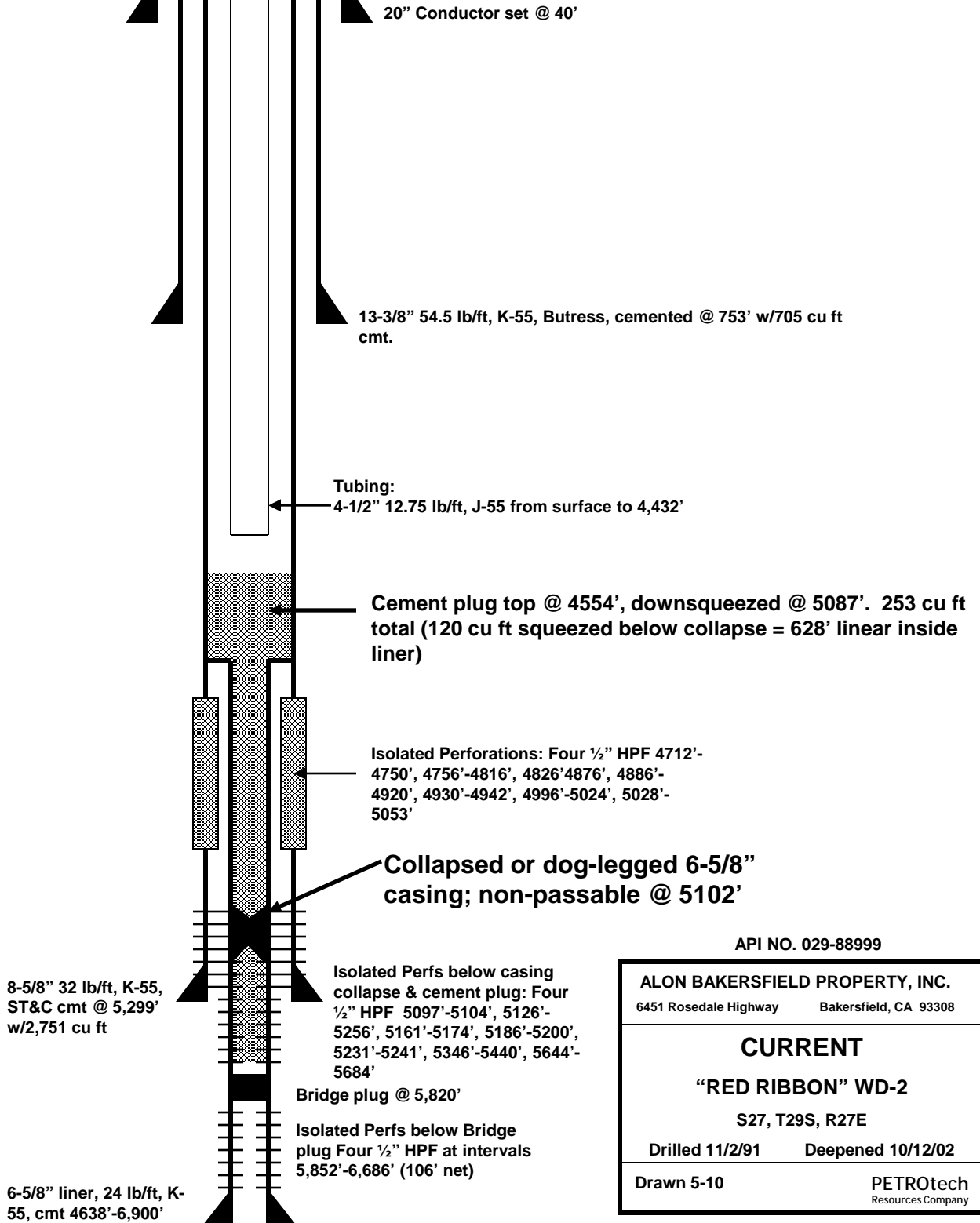
Deepened 4/06

Drawn 4/06

PETROtech
Resources Company

NOTE: Not drawn to scale.

SURFACE



API NO. 029-88999

ALON BAKERSFIELD PROPERTY, INC.

6451 Rosedale Highway

Bakersfield, CA 93308

CURRENT

"RED RIBBON" WD-2

S27, T29S, R27E

Drilled 11/2/91

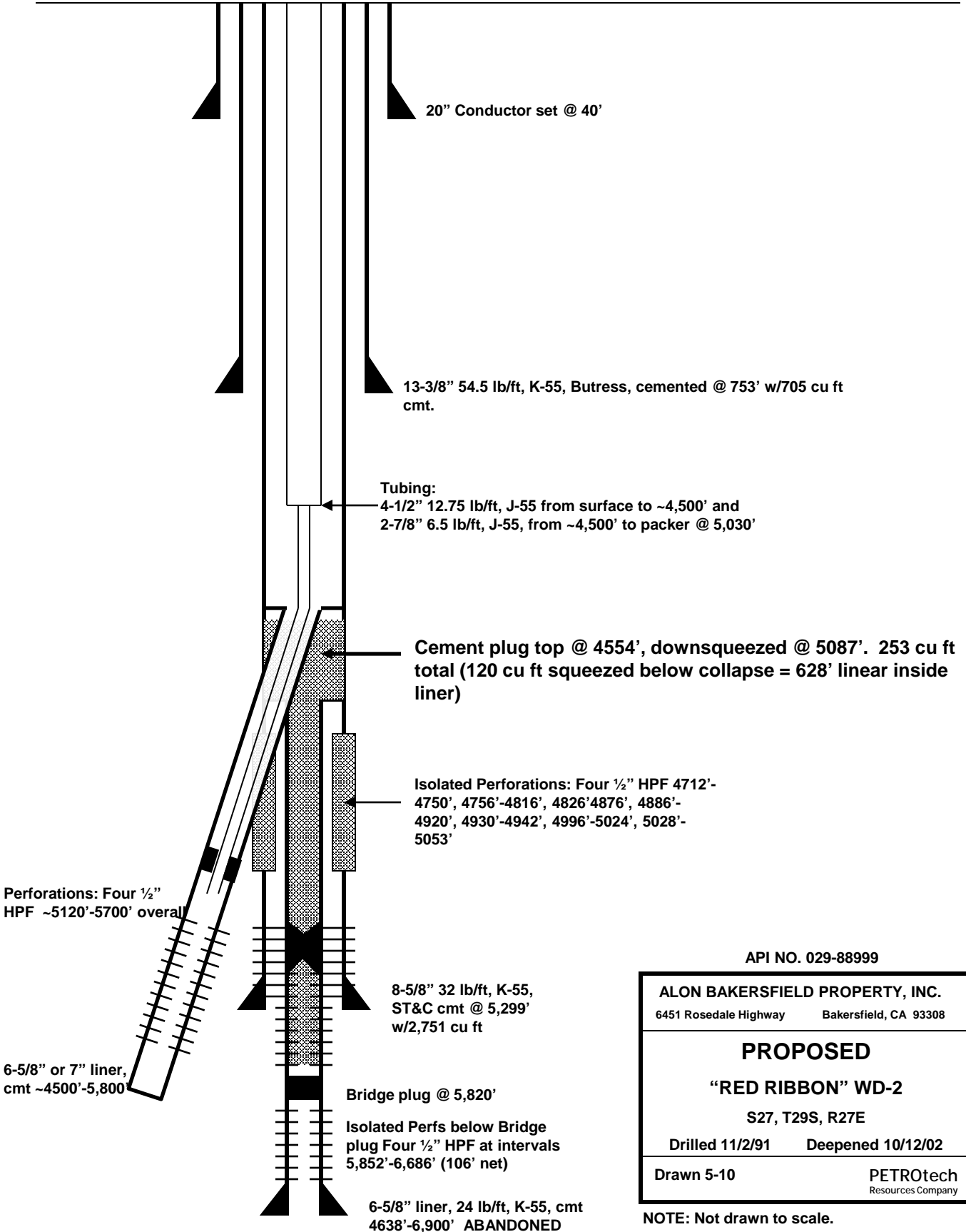
Deepened 10/12/02

Drawn 5-10

PETROtech
Resources Company

NOTE: Not drawn to scale.

SURFACE



API NO. 029-88999

ALON BAKERSFIELD PROPERTY, INC.

6451 Rosedale Highway

Bakersfield, CA 93308

PROPOSED

"RED RIBBON" WD-2

S27, T29S, R27E

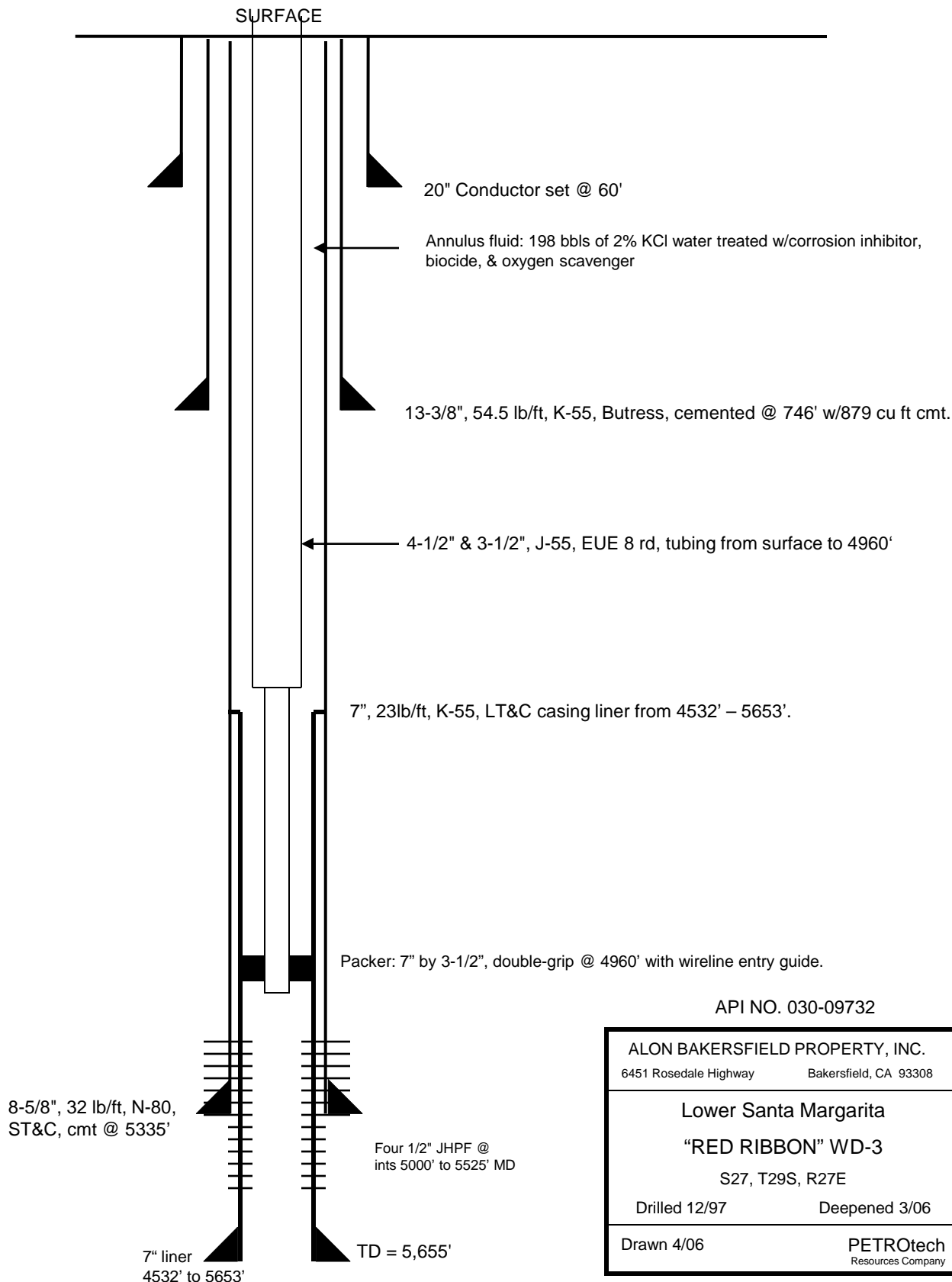
Drilled 11/2/91

Deepened 10/12/02

Drawn 5-10

PETROtech
Resources Company

NOTE: Not drawn to scale.



API NO. 030-09732

ALON BAKERSFIELD PROPERTY, INC.
6451 Rosedale Highway Bakersfield, CA 93308

Lower Santa Margarita

"RED RIBBON" WD-3

S27, T29S, R27E

Drilled 12/97

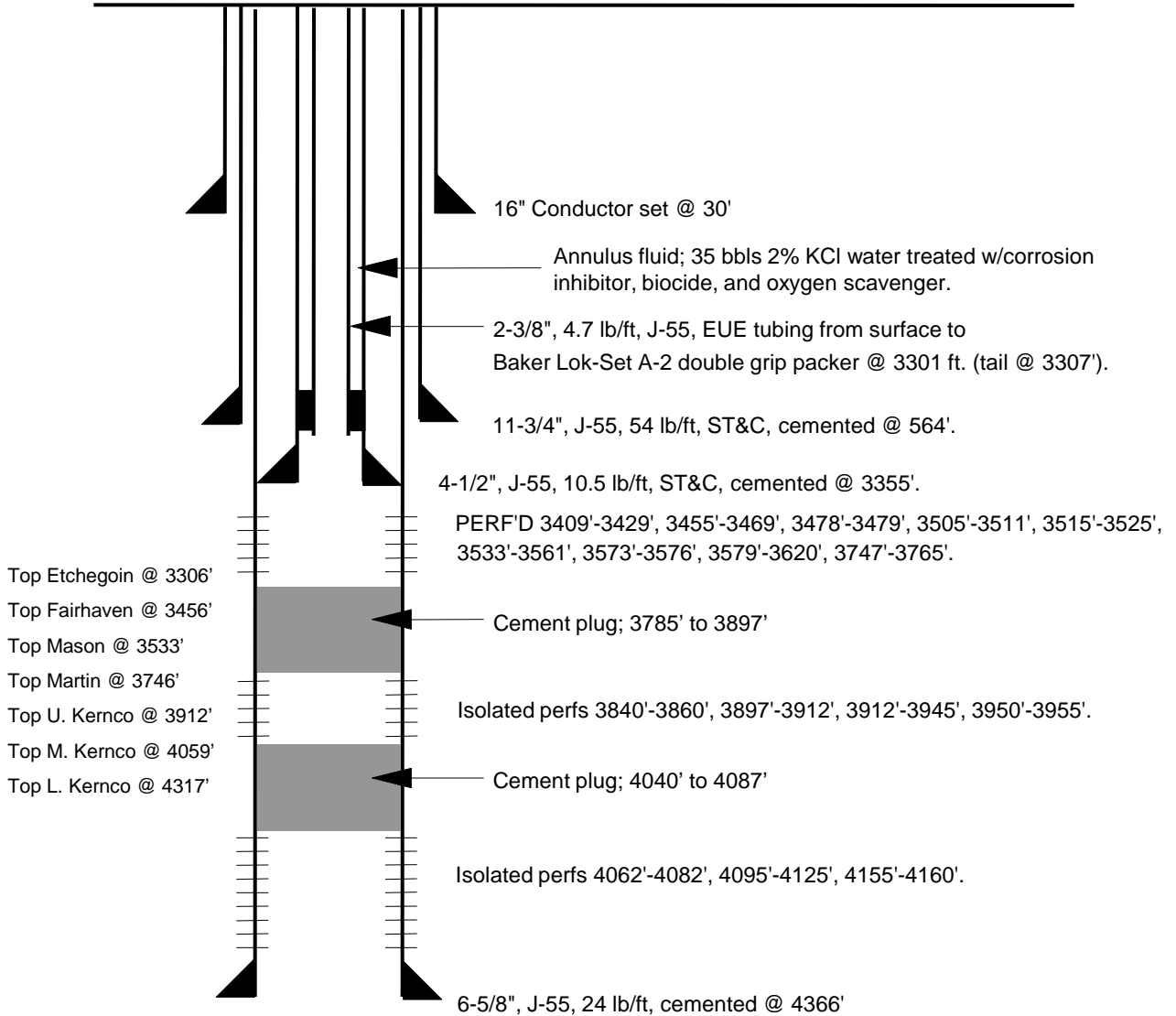
Deepened 3/06

Drawn 4/06

PETROtech
Resources Company

NOTE: Not drawn to scale.

SURFACE

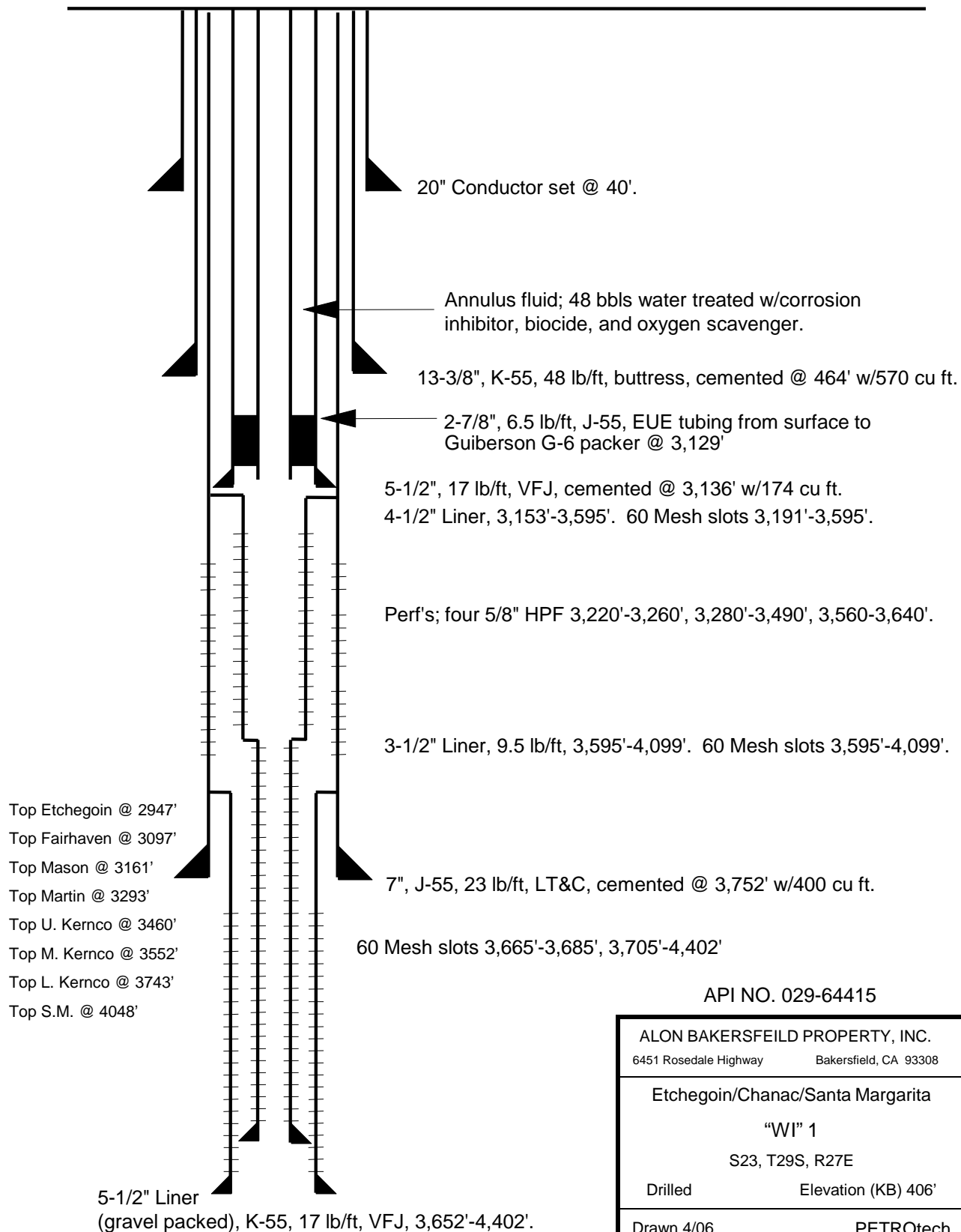


API NO. 029-08304

| | |
|---------------------------------|--------------------------------|
| ALON BAKERSFIELD PROPERTY, INC. | |
| 6451 Rosedale Highway | Bakersfield, CA 93308 |
| Etchegoin - Chanac | |
| "RED RIBBON" 7 | |
| S27, T29S, R27E | |
| Drilled 10/23/43 | Elevation (KB) 400' |
| Drawn 4/06 | PETROtech Resources Company |

NOTE: Not drawn to scale.

SURFACE



API NO. 029-64415

ALON BAKERSFEILD PROPERTY, INC.

6451 Rosedale Highway

Bakersfield, CA 93308

Etchegoin/Chanac/Santa Margarita

"WI" 1

S23, T29S, R27E

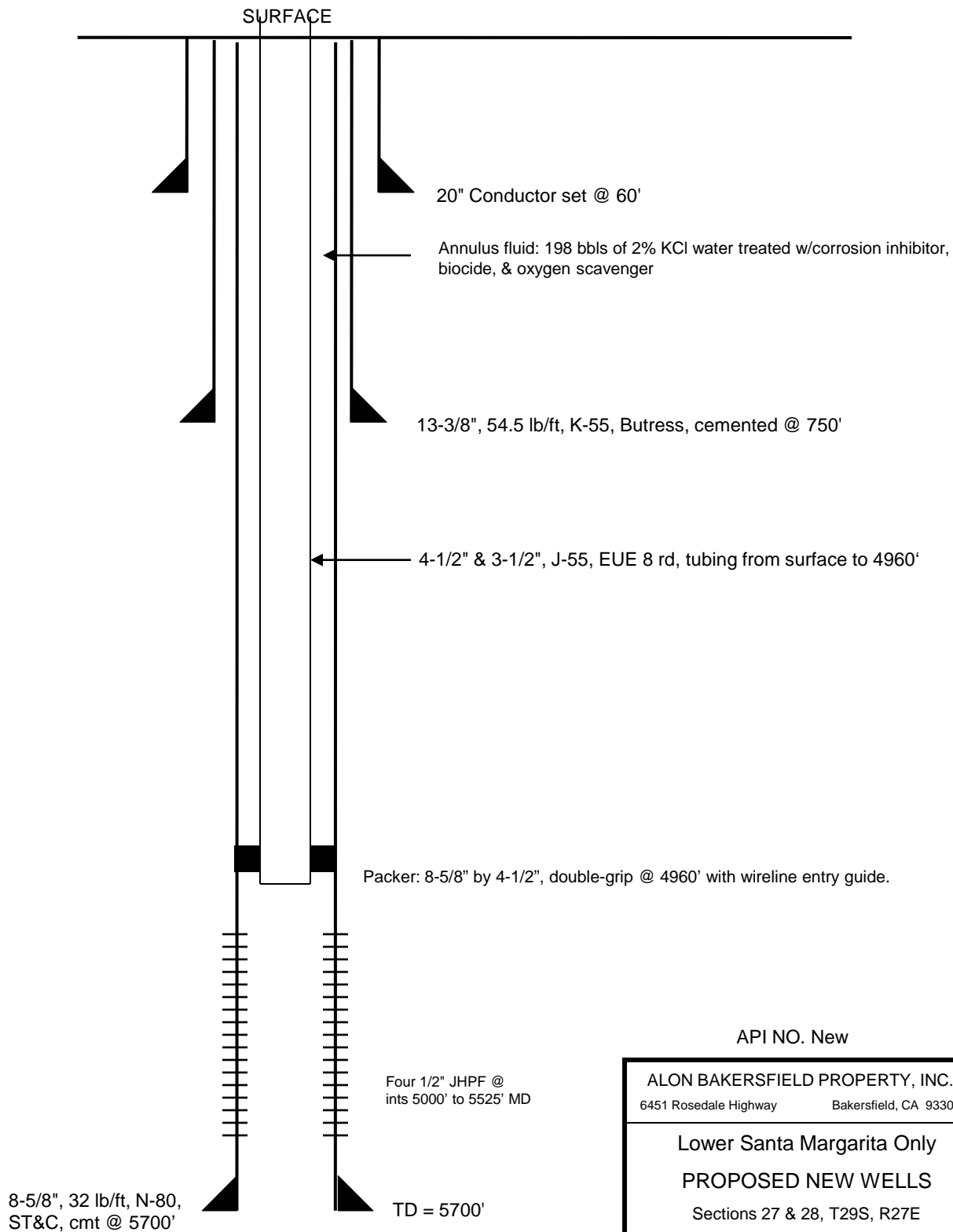
Drilled

Elevation (KB) 406'

Drawn 4/06

PETROtech
Resources Company

NOTE: Not drawn to scale.



API NO. New

ALON BAKERSFIELD PROPERTY, INC.

6451 Rosedale Highway

Bakersfield, CA 93308

Lower Santa Margarita Only

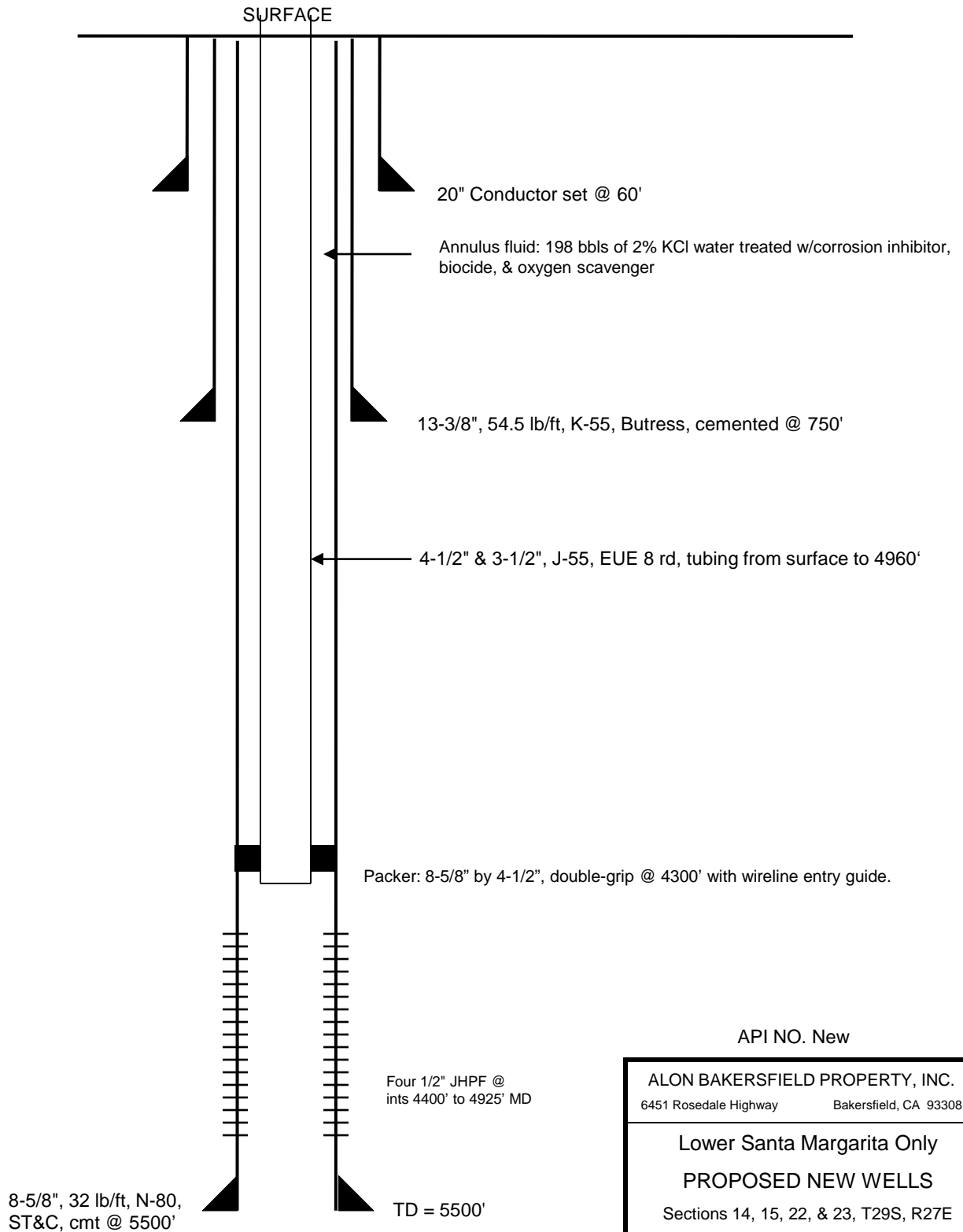
PROPOSED NEW WELLS

Sections 27 & 28, T29S, R27E

Drawn 4/06

PETROtech
Resources Company

NOTE: Not drawn to scale.



API NO. New

ALON BAKERSFIELD PROPERTY, INC.

6451 Rosedale Highway

Bakersfield, CA 93308

Lower Santa Margarita Only

PROPOSED NEW WELLS

Sections 14, 15, 22, & 23, T29S, R27E

Drawn 4/06

PETROtech
Resources Company

NOTE: Not drawn to scale.

SURFACE

20" Conductor set @ 60'

Annulus fluid: 198 bbls of 2% KCl water treated w/corrosion inhibitor,
biocide, & oxygen scavenger

13-3/8", 54.5 lb/ft, K-55, Butress, cemented @ 750'

4-1/2" & 3-1/2", J-55, EUE 8 rd, tubing from surface to 4960'

Packer: 8-5/8" by 4-1/2", double-grip @ 4900' with wireline entry guide.

Total Measured
Drill Depth = 8000'

Four 1/2" JHPF @
Vertical Depths 5000'
to 5525'

8-5/8", 32 lb/ft, N-80,
ST&C, cmt @ 8000'

API NO. New

ALON BAKERSFIELD PROPERTY, INC.

6451 Rosedale Highway

Bakersfield, CA 93308

Lower Santa Margarita Only
POSSIBLE NEW HORIZONTAL
WELLS

Sections 27 & 28, T29S, R27E

Drawn
12/07

PETROtech
Resources Company

NOTE: Not drawn to scale.

SURFACE

20" Conductor set @ 60'

Annulus fluid: 198 bbls of 2% KCl water treated w/corrosion inhibitor,
biocide, & oxygen scavenger

13-3/8", 54.5 lb/ft, K-55, Butress, cemented @ 750'

4-1/2" & 3-1/2", J-55, EUE 8 rd, tubing from surface to 4960'

Packer: 8-5/8" by 4-1/2", double-grip @ 4300' with wireline entry guide.

Total Measured
Drill Depth = 8000'

Four 1/2" JHPF @
Vertical Depths 4400'
to 4925'

8-5/8", 32 lb/ft, N-80,
ST&C, cmt @ 8000'

API NO. New

ALON BAKERSFIELD PROPERTY, INC.

6451 Rosedale Highway

Bakersfield, CA 93308

Lower Santa Margarita Only
POSSIBLE NEW HORIZONTAL
WELLS

Sections 14, 15, 22, & 23, T29S, R27E

Drawn
12/07

PETROtech
Resources Company

NOTE: Not drawn to scale.